REMARKS

The specification and claims are amended to correct typographical errors. Applicants apologize for not submitting these corrections sooner. No new matter is submitted.

Entry of this amendment is respectfully requested.

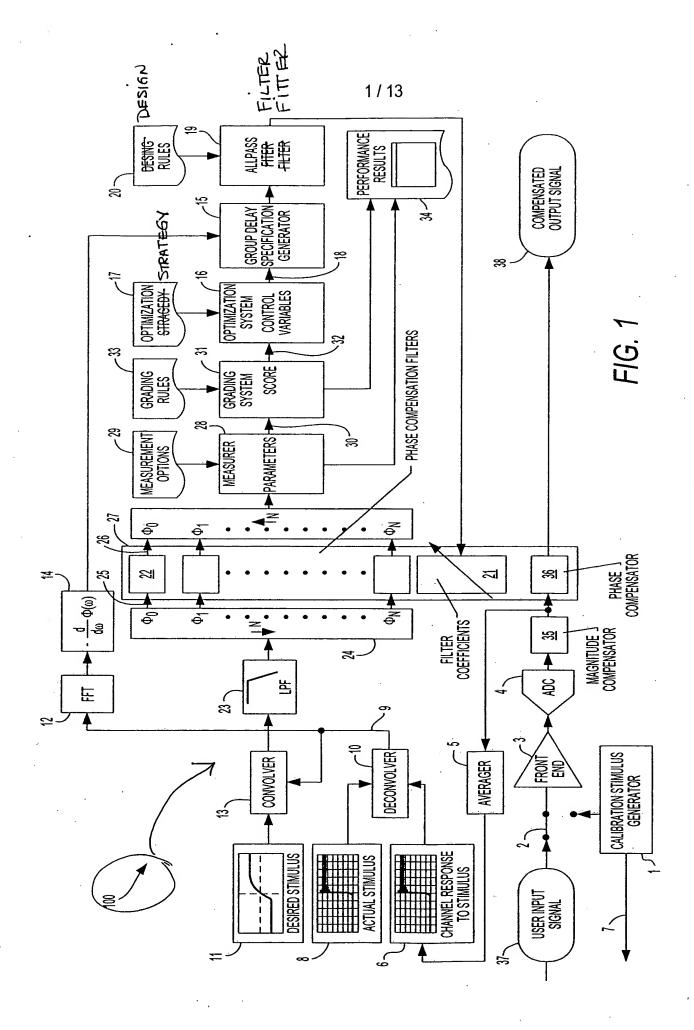
Respectfully submitted, FROMMER LAWRENCE & HAUG LLP

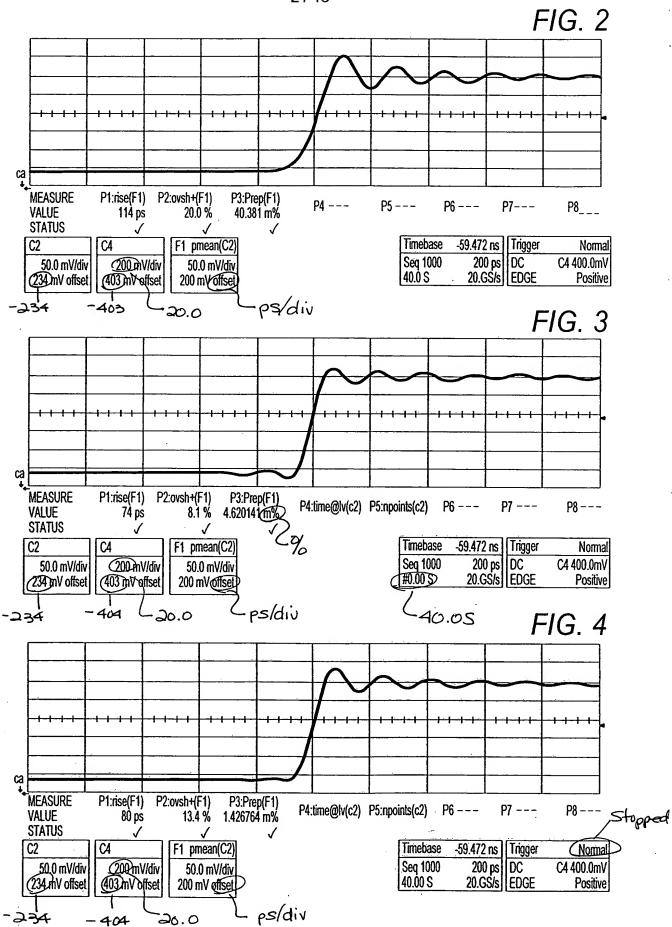
By:

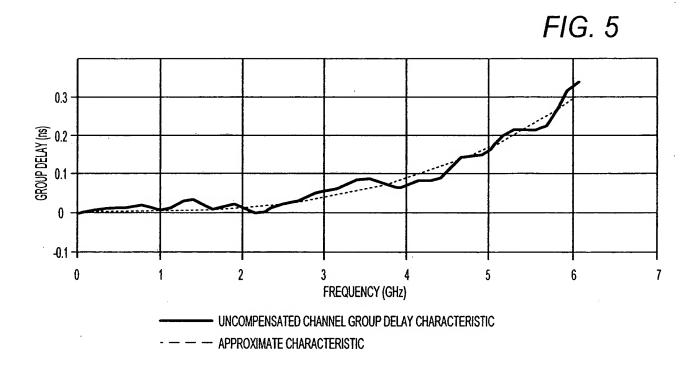
William S. Frommer

Reg. No. 25,506 (212) 588-0800

-10- 00320038







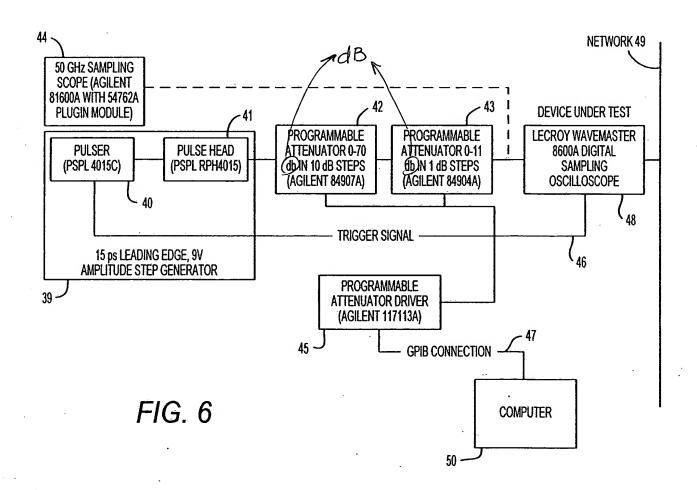


FIG. 7

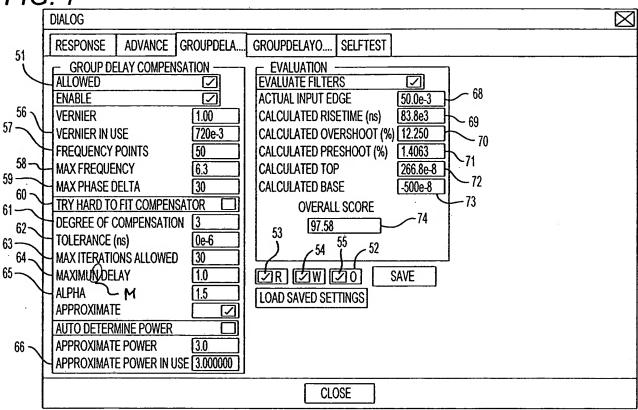
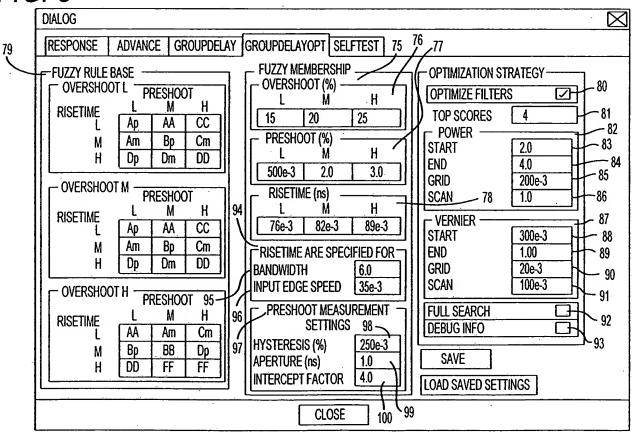
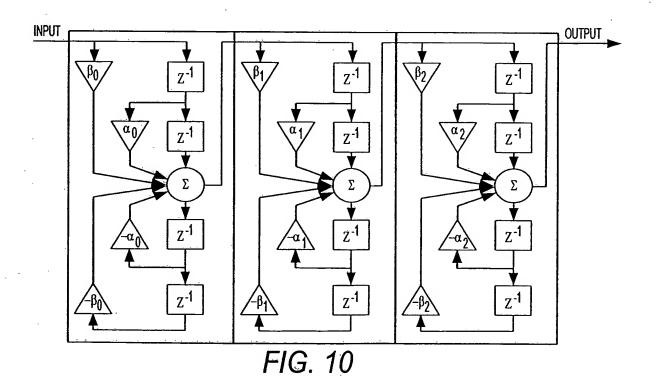


FIG. 8



1	for n=0N				FOR EACH RESPONSE POINT
2	$R_n = GD_{comprel} (f_n, g_{i-1}) + gd_{spec}$				CALCULATE A RESIDUAL
3	for j=02S-1				FOR EACH COEFFICIENT
4	$J_{n,j} = \underbrace{G}_{GD_{comprel}} (f_{n,g_{i-1}})$				CALCULATE AN ELEMENT OF THE JACOBIAN MATRIX
5	H=J ^T -W•J				CALCULATE THE APROXIMATE HESSIAN MATRIX
6	forj=0				GENERATE A MATRIX WHOSE
7	D _{j,j} = H _{j,j}				DIAGONAL IS IDENTICAL TO THE HESSIAN MATRIX AND IS ZERO ELSWHERE
8	Δ P=(H+λ·D)-1· J ^T · W·R				CALCULATE THE CHANGE TO THE COEFFICIENT VALUES
9	g _i =g _{i-1} -ΔP				APPLY THE CHANGE TO THE COEFFICIENTS
10	$mse_{i} = \frac{1}{N+1} \cdot \sum_{n} (gd_{Spec_{n}} + GD_{compret} (f_{n}, g_{i+1}))^{2}$				CALCULATE THE NEW MEAN SQUARED ERROR
11	true mse i > mse i-1 false				DID THE MEAN SQUARED ERROR INCREASE ?
12	λ = λ • 10	FAVOR STEEPEST DECENT	$\lambda = \frac{\lambda}{10}$	FAVOR NETWONGAUSS CONVERGENCE	FIG.



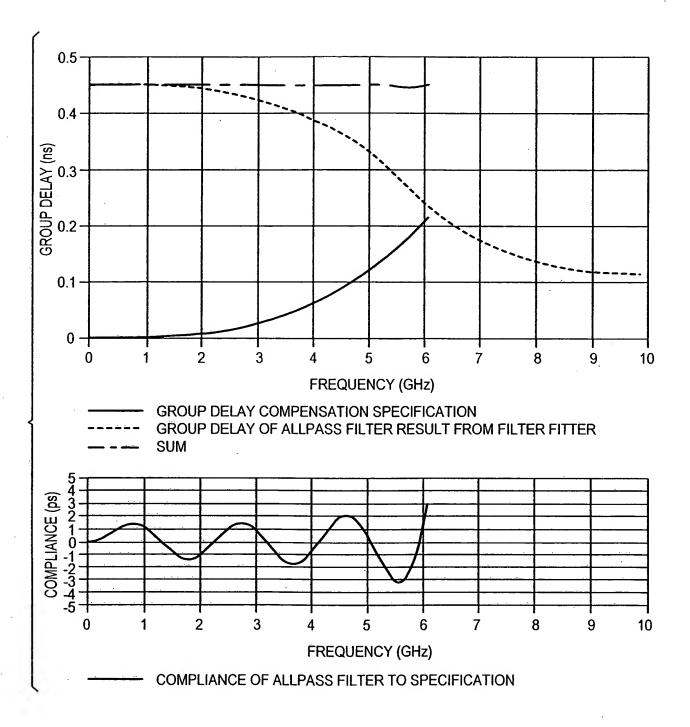


FIG. 11

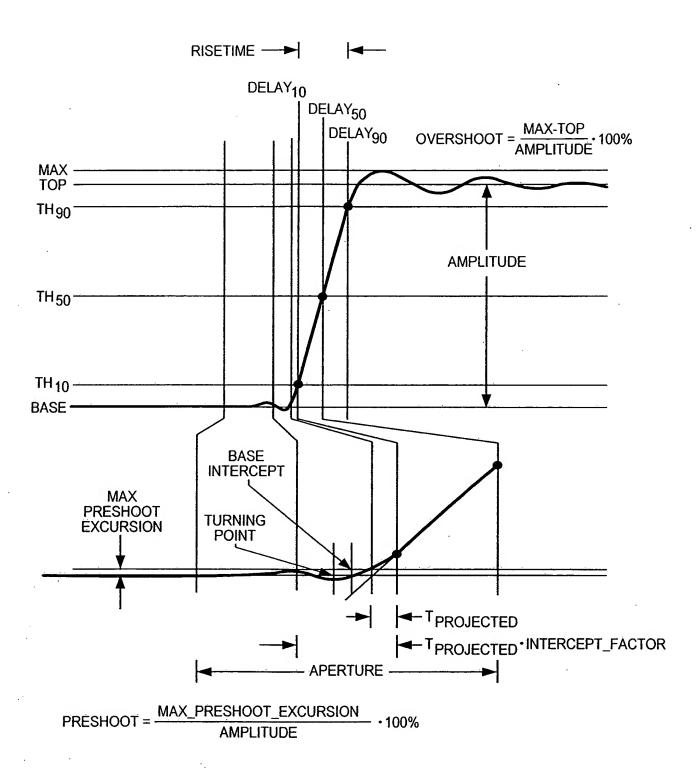
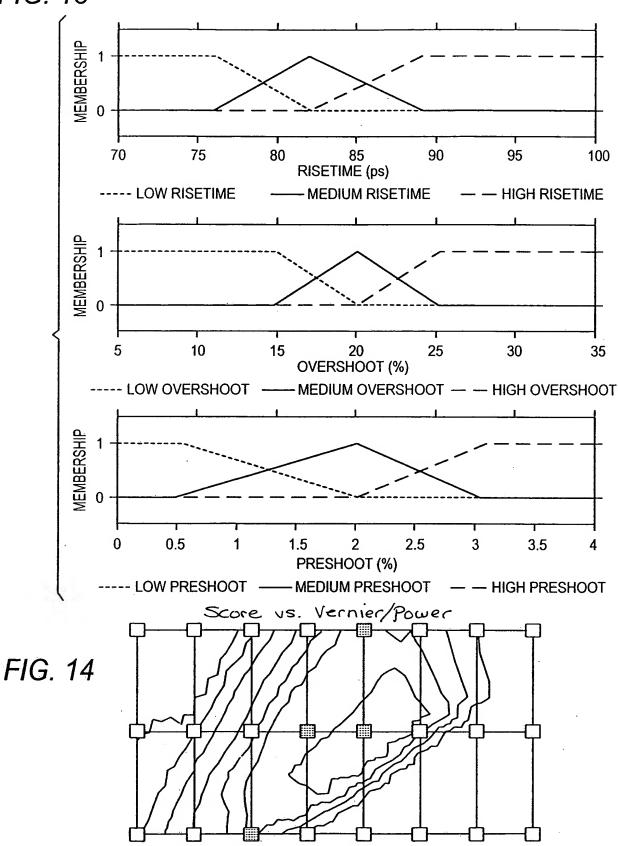


FIG. 12

FIG. 13



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III HIGHEST SCORE

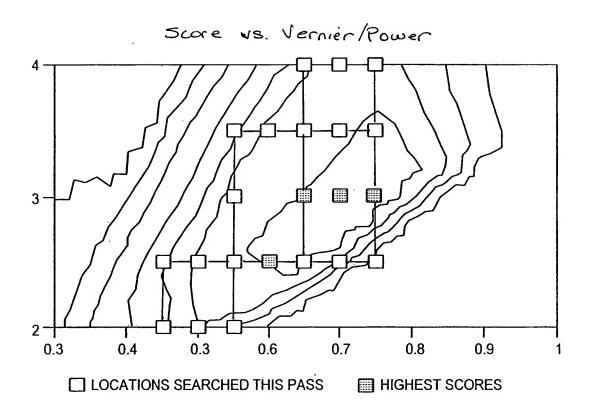


FIG. 15

Score Us. Vernier/Power

4

2

0.3

0.4

0.3

0.6

0.7

0.8

0.9

1

| LOCATIONS SEARCHED THIS PASS | HIGHEST SCORES

FIG. 16

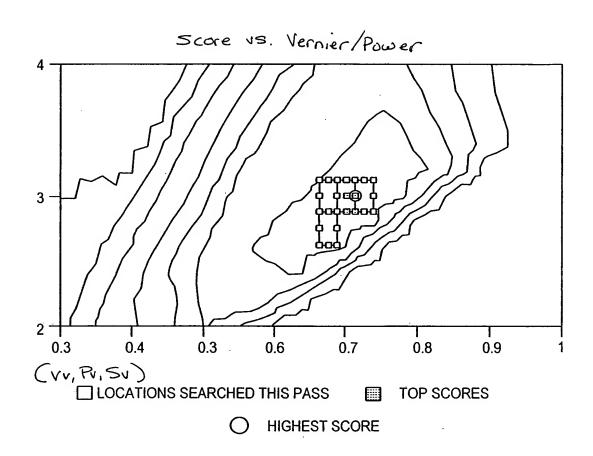


FIG. 17

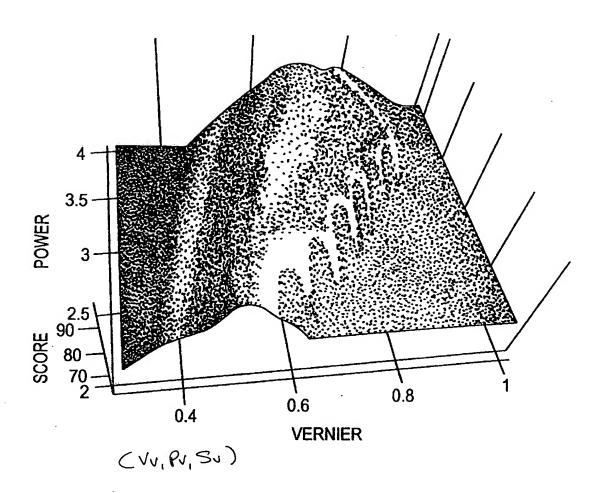


FIG. 18

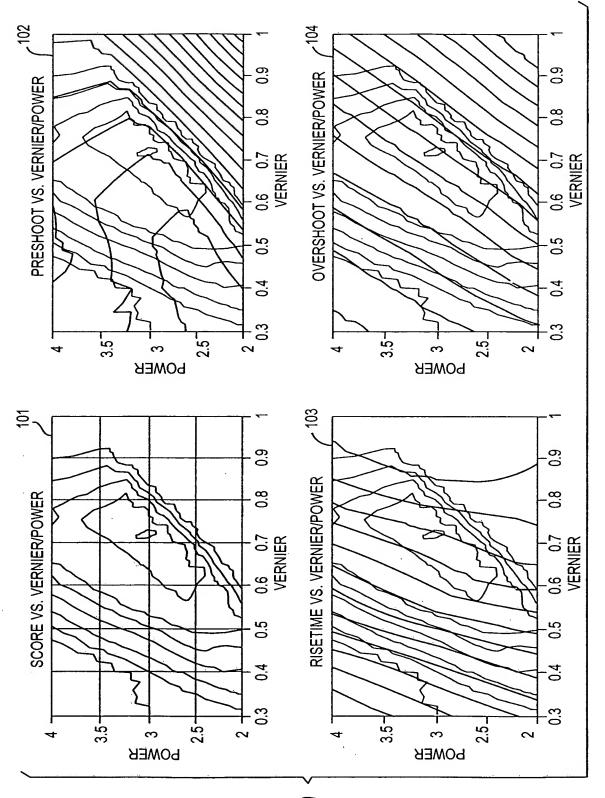


FIG. 19

